RAMCO HARD WORKER

WATERPROOFING COAT HW103

Two-component acrylic polymer-modified cementitious waterproof coating

TECHNICAL DATA SHEET

Product Description

Hard Worker Waterproofing Coat HW103 is a two-component, acrylic polymer-modified cementitious coating engineered to protect concrete and masonry substrates against water ingress. Supplied as an acrylic polymer liquid and a cement-based powder, it is mixed on site to a smooth, brushable consistency and applied in two coats to form a durable, flexible, seamless waterproof film on both horizontal and vertical surfaces exposed to moisture.

The cured coating resists positive water pressure and prevents leakage, while its flexibility accommodates minor substrate movement and static shrinkage cracks. Its food-grade (CFTRI) certification makes it suitable for potable-water-contact applications such as domestic water tanks.

Features

- Two-component system — acrylic polymer liquid and cement-based powder
- Smooth, brushable consistency with simple site mixing
- High flexibility and elongation for crack accommodation
- Withstands water pressure up to 5 bar
- Food-grade (CFTRI) certified for potable-water contact
- Forms a 1 mm waterproof film in two coats
- Suitable for horizontal and vertical surfaces

Application Areas

Suitable for both new and existing surfaces, including:

- Roofs, terraces and sunshades
- Bathrooms, kitchens and sunken areas
- Swimming pools, water tanks and sumps
- Retaining walls and basement walls

Surface Preparation

Ensure the substrate is clean, sound and free from dust, oil, grease and loose particles. Remove laitance and any contaminants that may impair adhesion, and fill or repair all cracks, voids and surface defects before coating. Pre-wet absorbent surfaces to a saturated surface-dry (SSD) condition and remove any standing water prior to application.

Mixing

Mix HW103 in the proportion Part A (liquid) : Part B (powder) : clean water of 1 : 2 : 0.5 by weight. First combine the liquid with the water, then add the powder gradually while mixing continuously. Mix for 2–3 minutes with a slow-speed mechanical blender until a smooth, lump-free, brushable slurry is obtained. Allow the mixed material to stand for 1–2 minutes toenable any entrapped air bubbles to escape. Remix for approximately 30 seconds before application. Mix only the quantity that can be applied in a single coat, and do not retemper.

Application

Apply the first coat with a brush, working the material well into the substrate, and allow it to become touch-dry. Mix a fresh batch in the same proportion and apply the second coat perpendicular to the first to achieve a continuous 1 mm dry film.

Allow the completed coating to air-cure for 72 hours,

and protect it from water contact until fully cured. Where the coating will be exposed to foot traffic or subsequent finishes, provide a protective screed or layer as required by the site conditions.

Technical Properties

Property	Value
Colour	Powder – Grey / Liquid – Milky White
Mixing Ratio (A : B : Water)	1 : 2 : 0.5 by weight
Consistency	Brushable
Pot Life	45 minutes at 30°C
Dry Film Thickness (2 coats)	1 mm
Curing Time (after 2nd coat)	72 hours

Performance Properties

Property	Value
Elongation	90 – 100%
Tensile Adhesion Strength	> 0.5 MPa
Water Penetration (pressure)	Withstands up to 5 bar
Food Grade	CFTRI Certified

All values tested under standard laboratory conditions.

Coverage

Approximately 10 sq. ft. per kg at 1 mm film thickness (two coats). On this basis a 3 kg pack covers approximately 30 sq. ft. and a 15 kg pack approximately 150 sq. ft. Coverage will vary with the texture and porosity of the substrate and the applied film thickness.

Package

Available in 3 kg and 15 kg packs. 3 kg pack: Part A – 1 kg (liquid), Part B – 2 kg (powder). 15 kg pack: Part A – 5 kg (liquid), Part B – 10 kg (powder).

Shelf Life

Shelf life of 12 months from the date of manufacture in unopened, sealed packaging stored between +10°C and +50°C in a dry place. Keep away from direct sunlight and frost.

Precautions and Safety

HW103 is non-hazardous, but standard safety precautions must be followed. Use gloves, goggles and protective equipment during mixing and application. In case of eye contact or accidental ingestion, rinse with clean water and seek medical attention.

Important Note

Ensure the surface is sound, clean and free from moisture or contaminants before application. Protect the freshly applied coating from water contact until it has completely cured.

Technical Support

All values provided are tested under controlled laboratory conditions; performance may vary depending on site conditions and workmanship. For site-specific recommendations, technical data, or detailed guidance, contact the Hard Worker Technical Services Team at:

Toll-free number 1800 202 5700

Email customercare@ramcocements.co.in

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